

IDENTIFICATION, DATA, TIGHTENING TORQUE(S) ENGINE

TURBO DIESEL XUD11BTE OR TURBO DIESEL XUD9TE

1. Identification

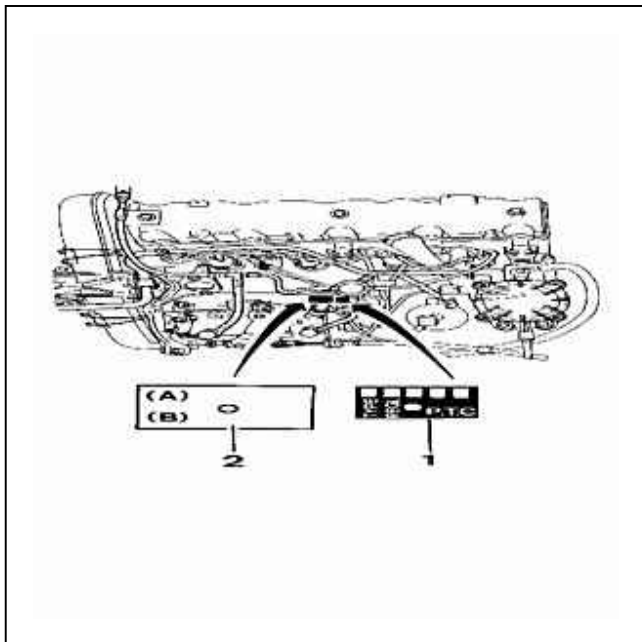


Figure : B1BK01UC

Identification plate (2) including :

- Unit number (A)
- Serial number (B)

Legislation type plate (1)	
Engine code	Legislation type
XUD9 TF	D8B
XUD9 BTF	DHX
XUD11 BTE	P8C

2. Data

Engine code	XUD9TF	XUD9BTF	XUD11BTE
Number of cylinders	4	4	4
Bore x stroke (mm)	83 x 88	83 x 88	85 x 92
Capacity (cc)	1905	1905	2088
Compression ratio	21.8/1	21.8/1	21.5/1
Maximum power (kW - EEC)	67.5	66	80
Maximum power (hp DIN)	92	90	110
Engine speed at max. power (r.p.m.)	4000	4000	4300
Maximum torque (daNm)	19.6	19.6	25
Engine speed at max. torque (r.p.m.)	2250	2250	2000
turbocharger	KKK K14 GARRET T2	KKK K14 GARRET T2	KKK K14 GARRET T2
Exchanger	Air-air	Air-air	Air-air
Turbocharger pressure (bar(s))	2000 rpm 0.7 ± 0.05 3000 rpm	2000 rpm 0.7 ± 0.05 3000 rpm	2000 rpm 0.7 ± 0.05 3000 rpm

	1 ± 0.07	1 ± 0.07	1 ± 0.07
Injection system	Mechanical	Mechanical	Mechanical
make	BOSCH	BOSCH	LUCAS
Type	XUD212	XUDBP02	XUDLP01
Smoke opacity (M -1)	1.84	2.41	1.54

3. Tightening torques

3.1. engine

Drive shaft nut : 32.5 da.Nm.

Camshaft gear bolt : 4.5 da.Nm.

Injection pump gear bolt : 5 da.Nm.

Inlet manifold fastenings : 2.5 da.Nm.

Turbocharger fastening : 6 da.Nm.

Diesel filter cover : 0.6 da.Nm.

Cylinder head cover fastenings : 1 da.Nm.

Injector holder fastening in cylinder head : 9 da.Nm.

Glow plug fastenings 2.5 da.Nm.

Injection pump fastenings : 2 da.Nm.

Cylinder head tightening :

- Pre-tighten : (2) da.Nm
- Tightening : 6 daNm + 220°

3.2. Power train mountings

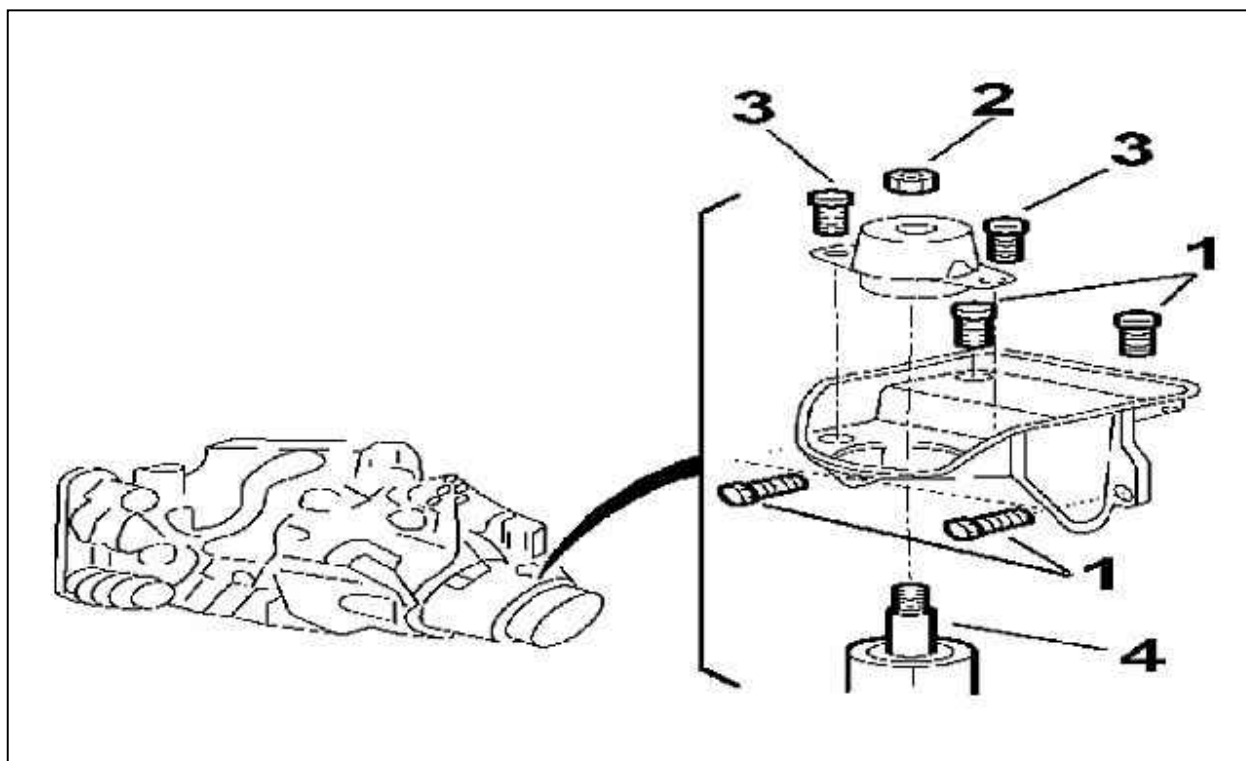


Figure : B1BK1KYD

LH engine support , Tighten :

- The bolts (1) : 3 daNm
- The nut (2) : 6.5 daNm
- The bolts (3) : 3 daNm
- The shaft (4) : 6 daNm + LOCTITE FRENETANCH

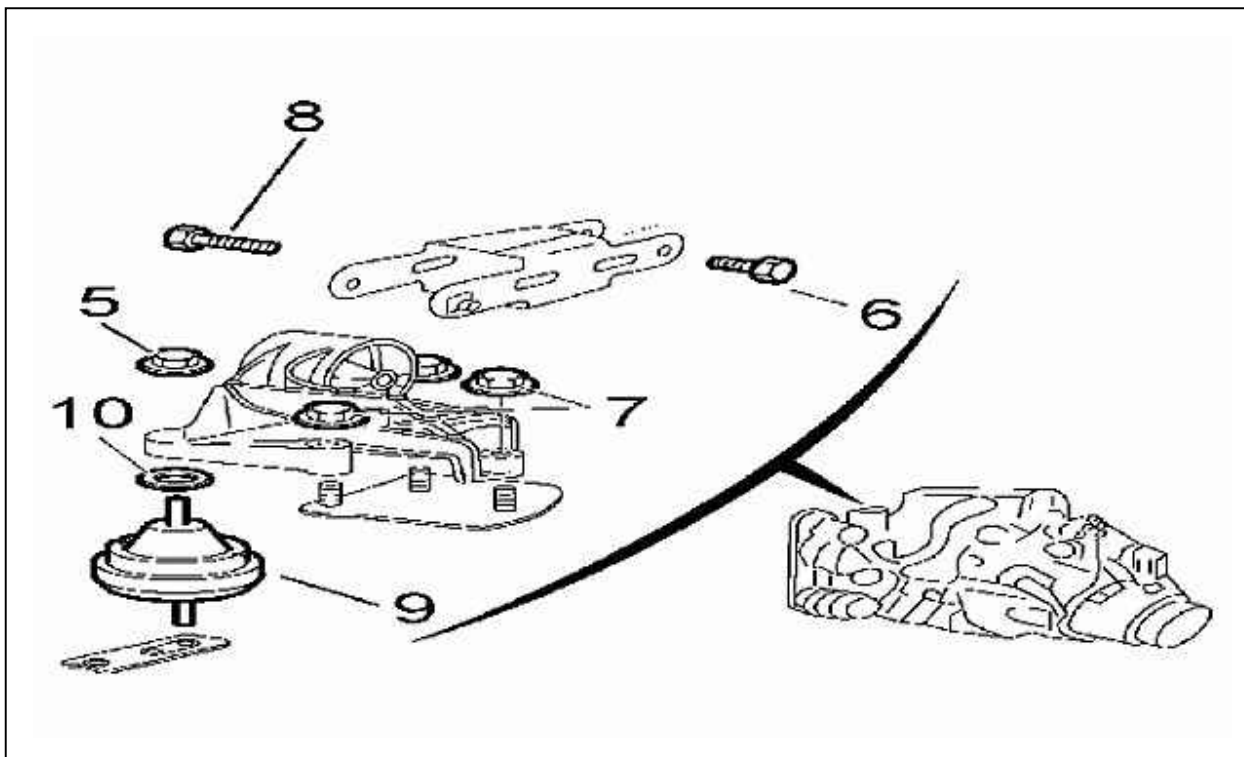


Figure : B1BK1KZD

RH engine support , Tighten :

- The nut (5) to 4.5 m.daN
- The bolts (6)-(7)-(8) 5 daNm
- The shim (9) 4 daNm

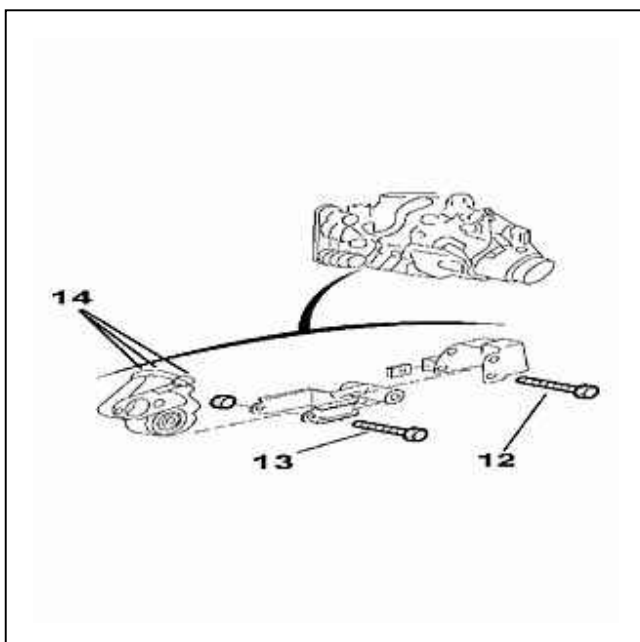


Figure : B1BK0HQC

Right side lower engine mounting , Tighten :

- The (11) bolt : 5 daNm
- The (12) bolt : 8.5 daNm